

ORDER FORM: SOLAR AND SUNSHINE DATA (ORDERED OFFLINE)

DECEMBER 2001

ALL ORDERS MUST BE PAID IN ADVANCE.

SERVICE AND HANDLING CHARGE: \$5.00, OR \$11 IF ORDERED ITEMS TOTAL \$50 OR MORE

MASTERCARD/VISA/AMEX/DISCOVER ACCEPTED

MAKE PAYMENT TO: "NNDC/NCDC" IN U.S. FUNDS.

MUST BE DRAWN ON A U.S. BANK OR U.S. AFFILIATE OF FOREIGN BANK.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

CALL TO CONFIRM CURRENT PRICES.

RUSH PROCESSING: ADD \$60.00

FOREIGN SURCHARGE: \$10.00 ORDERS < \$100; \$20.00 ORDERS \$100 OR MORE

FEDERAL AGENCIES ARE REQUIRED TO SUBMIT U.S. GOVERNMENT PURCHASE ORDERS.

National Climatic Data Center

151 Patton Avenue, Room 120

Asheville, NC 28801-5001

TELEPHONE 828-271-4800

FAX: 828-271-4876

TELEX: 6502643731 TDD: 828-271-4010*

INTERNET: ncdc.orders@noaa.gov

WEB SITE: <http://www.ncdc.noaa.gov>

This form or photocopies may be used to order the items listed. To order, enter price in blank provided, listing cities or months where appropriate. Call to confirm availability of city desired.

SUNRISE/SUNSET TIMES

The National Climatic Data Center does not provide official sunrise/sunset times. Solar and lunar tables and official sunrise/sunset times may be requested by writing to the address below:

U.S. Naval Observatory

3450 Massachusetts Ave NW

Washington, DC 20007

(WEB SITE: <http://tycho.usno.navy.mil/srss.html>)

SOLAR RADIATION AVERAGES

1. Mean Daily Solar Radiation, monthly and annual maps (p. 69 from CLIMAT**, 1931-60), 1 \$ 5.00 \$ _____

2. Annual Average Daily Global Solar Radiation on a South Facing Surface (1952-75) 1 map.

Order Environmental Information Summary C-21, "Annual Average Climatic Maps of the U.S.":

(Free) _____

3. Input Data for Solar Systems (1941-70), Paper copy of 1 page for

any of 248 large U.S. cities. 1-10 Cities (APPROXIMATE PRICE):

\$4.00 \$ _____

Entire publication:

4 fiche, \$12.00 \$ _____

Contains: Normal max, min and mean temperatures

Normal heating and cooling degree days

Monthly Mean daily total solar radiation

4. Insolation Data Manual (1952-75) Contains above statistics from item 3 and a global cloudiness index.

5. Direct Normal Solar Radiation Data Manual (1952-75) long term, monthly mean, daily totals for 235 National Weather Service Stations.

Numbers 4 and 5 above have been combined in one volume without modifications and are available from the National Technical Information Service, 5285 Port Royal Road, Springfield, Virginia, 22161. Telephone number 1-800-553-6847. Order number DE90000353.

6. Solar Radiation Energy Resource Atlas of the U.S. (1952-75)

Contains: Maps of monthly and annual values of daily:

Global average solar radiation

Global average direct normal solar radiation

Global average diffuse solar radiation

Available from NTIS. Note address and phone listed above (item 5). Order number DE84005105.

7. Microfiche presentations of the Solar Radiation Energy Resource Atlas above are available from NCDC and include monthly and annual data in microfiche or photocopy forms for 237 stations (up to 3 fiche per station). Write for a free description and station list of these tables. Call or write for cost estimates of microfiche or photocopies.

CD-ROM

TOTAL FROM FRONT PAGE: \$ _____

2. Solar Radiation Data, Monthly Summary (1977-1980). Monthly publication is out of print, but is available on 101 microfiche, as follows: (each fiche set contains hourly data for all stations available) Jan 77 to Feb 78 - 1 fiche per month; Mar 78 to Dec 80 - 2 fiche per month

List Months: _____ \$3.00 per fiche \$ _____

3. Hourly Solar Radiation (unedited) (January 1981 - October 1985) (This is a continuation of the above data but editing for quality control was suspended with the publication in December 1980) 1 fiche per month.

List months: _____ \$3.00 per fiche \$ _____

4. Hourly Solar Radiation Data (edited) (January 1988 - Current). Global and direct solar radiation data are collected for the 31 station NOAA Solar Radiation Network. Data from the entire network are produced on monthly microfiche (1 fiche per month).

List months: _____ \$3.00 per fiche \$ _____

Data from individual stations can be provided on paper copies. (2 pages per month per station.) Call or write to confirm availability of data from specific stations and for cost estimate.

SUNSHINE AVERAGES

1. Comparative Climatic Data (updated annually) Contains average percent of possible sunshine: monthly and annual tables for 275 large U.S. cities. (Averaged from 1940s - 1990s) 94 pages: \$6.00 \$ _____

2. Selected Climatic Maps of the United States (1931-60) is a condensed version of the CLIMAT** and includes the following maps:

Mean daily Solar Radiation (January and July)

Mean total hours of sunshine (Annual)

Mean percentage of possible sunshine (January, July, Annual)

8-1/2x11 in., 32 pages: \$ 2.00 \$ _____

3. Mean percentage of possible Sunshine, monthly and annual maps (p. 65 from

CLIMAT**, 1931-60) 1-16x22 in. sheet: \$ 2.00 \$ _____

Entire publication \$12.00 \$ _____

REFERENCE MANUALS (Contain no actual or average data)

1. "Solar Radiation Data", Environmental Information Summary (EIS) C-18 (1980) 14 pages (Free) _____

2. Radiation Measurement IFYGL TM2 (1972) 2 fiche, \$6.00 \$ _____

3. History of Sunshine Data in the US, 1891-1980 1 fiche, \$3.00 \$ _____

Historical Climatology Series 2-2

SUBTOTAL: \$ _____

SERVICE AND HANDLING CHARGE: \$5.00 OR \$11 IF ORDERED ITEMS TOTAL \$50 OR MORE \$ _____

RUSH PROCESSING: \$60.00 FEDERAL EXPRESS DELIVERY: (\$7.00 within contiguous U.S.) \$ _____

FOREIGN SURCHARGE: \$10 FOR ORDERS < \$100; \$20.00 FOR ALL ORDERS \$100 OR MORE ORIGINATING FROM OUTSIDE THE U.S. \$ _____

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